Radiologic Sciences

Radiologic Sciences Major

Radiographers, also known as radiologic technologists, perform diagnostic imaging examinations to assist physicians to diagnose or rule out disease or injury.

A Bachelor of Science degree, major in Radiologic Sciences (RS), includes two or more years of rigorous academic course work on campus and a two-year full-time professional phase/internship in an affiliated hospital-based school of radiologic technology that includes classroom and clinical education specific to radiography. Graduates are eligible to write the national certifying examination administered by the American Registry of Radiologic Technologists (ARRT) to become a registered technologist in radiography, RT(R).

A strong science and math aptitude is important for RS majors to possess since academic course work includes chemistry, physics, anatomy and physiology, microbiology, trigonometry, and statistics, in addition to general education courses. The full-time two-year professional program/ internship (60 credits) consists of classroom and clinical instruction in patient care procedures, radiation physics and protection, principles of imaging, positioning, radiobiology, and pathology.

Students who have completed the prerequisite course work on campus and meet the GPA and grade requirements may be eligible to apply for the professional-level class and clinical. Transfer students must complete a minimum of 20 resident credits at NDSU prior to the start of the professional program to be eligible to apply. NDSU has affiliation agreements with ten hospital-based schools of radiologic technology that are accredited by the Joint Review Committee for Education in Radiologic Technology (JRCERT). Admission into the professional program is competitive. Specific admission criteria are established by each affiliated hospital program and generally includes completion of required courses, academic achievement, references, related experience, and an interview. In addition, students must comply with criminal background and conduct requirements.

During the professional program, specific letter grades are assigned by the hospital program, maintained on their program's official transcript, and are not included in calculation of NDSU's grade point average. Official transcripts are available upon written request from the hospital program. An NDSU grade of 'Pass' is awarded for successful completion of each term of the professional hospital program.

Information about the profession, curriculum, internship, and advising contacts are available from the Department of Allied Sciences (http:// www.ndsu.edu/alliedsciences).

Major Requirements

Radiologic Sciences Major

Degree Type: B.S. Required Degree Credits to Graduate: 132

General Education Requirements

First Year Experience (F):

UNIV 189	Skills For Academic Success (Students
	transferring in 24 or more credits do not need to
	take UNIV 189.)

Communication (C):

ENGL 110	College Composition I	3		
ENGL 120	College Composition II	3		
One Course of Upper Level Writing. Select one of the following:				
ENGL 320	Business and Professional Writing			
ENGL 321	Writing in the Technical Professions			
ENGL 322	Creative Writing I			
ENGL 323	Creative Writing II			
ENGL 324	Writing in the Sciences			
ENGL 325	Writing in the Health Professions			
ENGL 358	Writing in the Humanities and Social Sciences			
ENGL 459	Researching and Writing Grants and Proposal			
COMM 110	Fundamentals of Public Speaking	3		
Quantitative Reas	soning (R):			
STAT 330	Introductory Statistics	3		
Science & Techne	ology (S):			
BIOL 220 & 2201	Human Anatomy and Physiology I and Human Anatomy and Physiology I Laboratory	4		
CHEM 117 & 117L	Chemical Concepts and Applications and Chem Concepts and Applications Lab	4		
CSCI 114	Microcomputer Packages	3-4		
or CSCI 116	Business Use of Computers			
Humanities & Fine Arts (A): Select from current general education list				
Social & Behavio	ral Sciences (B):			
PSYC 111	Introduction to Psychology	3		
Select from current general education list				
Wellness (W): Se	lect from current general education list	2		
Cultural Diversity	(D): Select from current general education list			
Global Perspectiv	ves (G): Select from current general education			
Total Credits		41-42		

Major Requirements

General Education Requirements						
Radiologic Science Major Requirements						
RS 111		Introduction to Radiologic Sciences	1			
RS 496		Field Experience	60			
Professional education (internship) within an accredited affiliated school of radiologic technology includes the capstone experience.						
Rela	ated Courses	Required:				
BIO & 22	L 221 21L	Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory	4			
CHE	EM 260	Elements of Biochemistry	3-4			
or BIOC 460 Foundations of Biochemistry and Molecular Biology			I.			
MA	TH 105	Trigonometry (or higher level)	3			
Select one microbiology course and lab from the following:						
N 8	/ICR 202 202L	Introductory Microbiology and Introductory Microbiology Lab				
N 8	/ICR 350 & 350L	General Microbiology and General Microbiology Lab				
PHF	RM 125	Medical Terminology for Health Professionals	1			
PHF	RM 170	Common Medicines & Diseases	2-3			

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COMM	383 Orga	anizational Communication I	
COMM	381 Pati	ent-Provider Communication	
COMM	380 Hea	Ith Communication I	
COMM	315 Sma	Il Group Communication	
COMM	308 Bus	ness and Professional Speaking	
Communication: Select one of the following:			3
SOC 44	1 Dea	th and Dying	
SOC 44	0 Soc	ology of Aging	
SOC 42	6 Soc	ology of Medicine	
Sociology:	Select one	of the following:	3
Special Ma	ajor Electiv	es (department approved)	
& 212L	and	College Physics II Laboratory	
PHYS 212	Coll	ege Physics II	4
& 211L	and	College Physics I Laboratory	
PHYS 211	Coll	ege Physics I	4
or PHRM 3	00 Prin	ciples of Clinical Pharmacology	

Total Credits

132-136

Degree Requirements and Notes

- All required courses must be completed with a grade of 'C' or above. All students must maintain a semester GPA of 2.0 or above for each semester in the College. A student who fails to meet this standard for two successive or three non-successive semesters may be terminated from enrollment in the College of PNAS.
- Completion of the prerequisites does not guarantee a student internship. Selection of interns is competitive. Please consult your Radiologic Sciences advisor for more information.